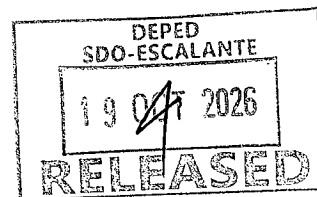




Republic of the Philippines
Department of Education
NEGROS ISLAND REGION
DIVISION OF ESCALANTE CITY



October 19, 2026

DIVISION MEMORANDUM

No. 475, s. 2026

CONDUCT OF DIVISION SCIENCE AND TECHNOLOGY FAIR 2026

TO: OIC-Assistant Schools Division Superintendent
Chief, Curriculum and Implementation Division
OIC- Chief School Governance and Operations Division
Education Program Supervisor (Mathematics)
Education Program supervisor (Science)
Secondary School Heads
All Others Concerned

1. The Schools Division of Escalante City, through the Curriculum Implementation Division (CID), will conduct the **Division Science and Technology Fair 2026** on **October 27 2026 (1:00 AM – 5:00 PM)** at **Escalante Central Elementary School** with the theme: *“Leveraging Scientific Innovation for a sustainable and progressive Philippines”*
2. This activity aims to:
 - a. Develop and strengthen the Science, Technology, Engineering, and Mathematics (STEM) skills of learners through the conduct of research projects that address local, national, and/or global issues;
 - b. Provide an avenue for high school learners to communicate research findings and showcase their investigations and innovations to the STEM community and the public;
 - c. Foster a culture of creativity and innovation among the youth; and
 - d. Promote STEM awareness and interest among learners, teachers, and the public.
3. Participants will be Grades 9-12 or Secondary having STEM offerings.
4. The following are the contests/events to be conducted during the activity:
 - a. Tuklas-Life Science (Individual and Team)
 - b. Tuklas-Physical Science (Individual and Team)
 - c. Tuklas-Robotics and Intelligent Machines (Individual and Team)
 - d. Tuklas-Mathematics and Computational Science (Individual and Team)
 - e. STEM Innovation Expo (Individual and Team)
5. A Virtual orientation for the COACHES is directed on **October 19, 2026, 3:00 pm via MS Teams**.



Escalante City, Negros Occidental, Philippines
Tel. Nos – (034) 724-5720, (034) 454- 0746
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6. See attached enclosures for the guidelines, mechanics, criteria, and technical working group assignments. For complete reference, please see **DepEd Memo No. 058, s 2026**.
7. It is understood that, in the conduct of this activity, there shall be no discrimination on account of age, gender, civil status, disability, religion, or other similar factors/personal circumstances that run counter to the principles of equal opportunity.
8. All expenses incurred in the conduct of the activity shall be chargeable against School MOOE/or Local Funds, or any other available funds, and subject to applicable accounting and auditing rules and regulations. Each school shall pay the prescribed registration fee, chargeable against its available funds, and subject to applicable accounting and auditing rules and regulations.
9. Immediate dissemination of this memorandum is desired.

PETER J. GALIMBA
OIC-Schools Division Superintendent

Reference: none
Enclosure: As stated
Allotment: 1, 2, 3, 6, 7, 8, 9

To be indicated in the Perpetual Index under the following subjects
PROGRAMS ACTIVITIES PROJECTS SCIENCE MATHEMATICS CURRICULUM

ALBARICO/CABUS CID
Oct. 19, 2026



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Enclosure 1 to Division Memorandum No. 435 s. 2026

LIST OF TECHNICAL WORKING GROUP

CONTEST	CATEGORY	JUDGE 1	JUDGE 2	JUDGE 3
Tuklas-Life Science	Individual	Junelie P. Aguilar Ph. D	Rosalinda Gargarita	Jay Miko Lisondra Ph.D
	Team			
Tuklas-Physical Science	Individual	Shalom D. Albarico	Margarette R. Anig-ig Ph.D	Rodrigo B. Selisa
	Team			
Tuklas-Robotics and Intelligent Machine	Individual	Anthony Jess Anonuevo	Engr. Clint Cinco	Ronald B. Manihay
	Team			
Tuklas-Math and Computational Science	Individual	Warlito G. Eben	Mae Joy M. Tan, Ph.D	Jimmy Tecson
	Team			
STEM-Innovation Expo	Individual	Rose L. Lizardo Ph.D	Crestopher R. Neniel	Frances Grace B. Hubahib
	Team			



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TUKLAS RESEARCH PAPER FORMAT

TUKLAS Categories

The STEM research competition is divided into four (4) categories. The student researchers and advisor should carefully consider which category best describes the research project. They may enter the competition as an individual or as a team.

Life Science

This category deals with living organisms such as plants, microorganisms, and animals, including humans and their life processes. Projects that involve systematic observation, development, experimentation, and understanding of living things and biological processes belong to this category. Subcategories include Animal Sciences, Biomedical and Health Sciences, Cellular and Molecular Biology, Microbiology, Plant Sciences, and Translational Medical Science.

Physical Science

This category deals with the nature and properties of non-living matter, energy and systems. Projects that involve systematic observation, development, experimentation, and understanding of materials and phenomena belong to this category. Subcategories include Astronomy, Chemistry, Earth and Environmental Sciences, Energy, Engineering Technology, Statics and Dynamics, Sustainable Materials and Design, Environmental Engineering, Materials Science, and Physics.

Robotics and Intelligent Machines

This category deals with the design, implementation, and use of prime technologies and machine intelligence in providing a wide range of innovative solutions and advancements across multiple disciplines to reduce reliance on human intervention. Subcategories include Biomechanics, Cognitive Systems, Control Theory, Machine Learning, and Robot Kinematics.

Mathematics and Computational Science

Mathematics deals with the measurement, properties and relationships of quantities and sets using numbers and symbols. Subcategories include Algebra, Analysis, Combinatorics, Graph Theory, and Game Theory, Geometry and Topology, Number Theory, Probability and Statistics.

Computational Science deals with the development and implementation of mathematical models and simulations to understand natural systems and processes and solve STEM problems using computers. Subcategories include Computational Biology and Bioinformatics, Computational Chemistry, Computational Mechanics, and Theoretical, Computational and Quantum Physics.

For the full description of the sub-categories, selection, forms and sample project titles, visit the official website of ISEF category by scanning the QR code below.

RESEARCH PLAN

II. This should be written prior to experimentation, following the instructions below to detail the rationale, research questions, methodology, and risk assessment of the proposed study.

(This is compiled separately from the rest of the research manuscript.)

All projects should include the following:

- a. **Rationale:** Include a brief synopsis of the background that supports your research problem and explain why this research is important, and if applicable, explain any societal impact of your research.
- b. **Research Question or Problem** being addressed
- c. **Goals/Expected Outcomes/Hypotheses**
- d. **Procedures:** Detail all procedures and experimental design to be used for data collection.
- e. **Risk and Safety:** Identify any potential risks and safety precautions needed.
- f. **Data Analysis:** Describe the procedures to be used to analyze the data/results that answer research questions or hypotheses.
- g. **Bibliography:** List at least five (5) major references (e.g., science journal articles, books, internet sites) from your literature review using the APA Manual of Style. If you plan to use vertebrate animals, one of these references must be an animal care reference.

III. **PROJECT DATA LOGBOOK**

A project data logbook is an organizational tool used by student researchers to document and record the narrative and evidence of research activities, including planning, research design, drawings/illustrations, procedures, data collection, analysis and presentation, inferences, and conclusions. Detailed and accurate notes, whether in paragraphs or bullet points, demonstrate consistency and thoroughness, which will be helpful when writing the research paper.

It is recommended to use hard-bound notebooks instead of spring notebooks to prevent pages from being torn out, to write entries with permanent pens, and to minimize erasures. Representing procedures in flow charts and organizing data in tables are also helpful. Although entries may appear a little messy, it is important to accurately record both qualitative and quantitative data (including units of measurement). Each logbook entry should be dated and signed by the supervising adult (if applicable) during the research activity.

IV. **RESEARCH PAPER FORMAT**

Science Project

1. **INTRODUCTION** - What relevant background information supports your research problem/ questions?

- Explain what is known or has already been done in your research area. Include a brief review of relevant literature. If this is a continuation project, a summary of your prior research is appropriate here. Be sure to distinguish your previous work from this year's project.

- Include a brief description on how your project will address an issue, concern, or problem. Explain why this research is important and any societal impact of your research.
2. **METHODS** - What procedures were carried out for the experimentation?
 - Explain in detail what you did. What data did you collect, and how did you collect that data? Discuss your control group and the variables you tested.
 - Discuss your control group and the variables you tested. The statistical treatment used and handling and disposal of waste may be included if applicable.
 - DO NOT include a list of materials.
 3. **RESULTS** - What were the result(s) of your project?
 - Include tables and figures which illustrate your data.
 - Include relevant statistical analysis of the data.
 4. **DISCUSSION** - What is your interpretation of these results?
 - What do these results mean? Compare your results with theories, published data, commonly held beliefs, and expected results.
 - Discuss possible errors. Did any questions or problems arise that you were not expecting? How did the data vary between repeated observations of similar events? How were results affected by uncontrolled events?
 5. **CONCLUSIONS** - What conclusions did you reach?
 - What do these results mean in the context of the literature review and other work being done in your research area? How do the results address your research question? Do your results support your hypothesis?
 - What application(s) do you see for your work?
 6. **REFERENCES** - What are your sources?
 - This section should not exceed one page. Limit your list to the most important references.
 - List the references/documentation used which were not of your own creation (i.e., books, journal articles).
 - Your reference list should be written based on the American Psychological Association. For more information, you may visit this link: <https://apastyle.apa.org/>.

Engineering Project

1. **INTRODUCTION** - What is your engineering problem and goal?
 - What problem were you trying to solve? Include a description of your engineering goal.
 - Explain what is known or has already been done to solve the problem, including work on which you may build. You may include a brief review of relevant literature.
 - If this is a continuation project, a brief summary of your prior work is appropriate here. Be sure to distinguish your previous work from this year's project.

2. **METHODS** - What are your methods and procedures for building your design?

- Explain what you did. How did you design and produce your prototype? If there is a physical prototype, you may want to include pictures or designs of the prototype.
- If you tested the prototype, what were your testing procedures? What data did you collect, and how did you collect that data?
- DO NOT include a separate list of materials.

3. **RESULTS** - What were the result(s) of your project?

- How did your prototype meet your engineering goal?
- If you tested the prototype, provide a summary of testing data tables and figures that illustrate your results.
- Include relevant statistical analysis of the data.

4. **DISCUSSION** - What is your interpretation of these results?

- What do these results mean? You may compare your results with theories, published data, commonly held beliefs, and/or expected results.
- Did any questions or problems arise that you were not expecting? Were these problems caused by uncontrolled events? How did you address these?
- How is your prototype an improvement or advancement over what is currently available?

5. **CONCLUSIONS** - What conclusions did you reach?

- Did your project turn out as you expected?
- What application(s) do you see for your work?

6. **REFERENCES** - What are your sources?

- This section should not exceed one page. Limit your list to the most important references.
- List the references/documentation used which were not of your own creation (i.e., books, journal articles).
- Your reference list should be written based on the American Psychological Association. For more information, you may visit this link: <https://apastyle.apa.org/>.

Mathematics and Computational Science Project

1. **INTRODUCTION** - What is your research question?

- Explain what is known or has already been done in your research area. Include a brief review of relevant literature.
- If this is a continuation project, a brief summary of your prior work is appropriate here. Be sure to distinguish your previous work from this year's project.

2. **FRAMEWORK** - What is your framework?

- Introduce the concepts and notation needed to specify your research question, methods, and results precisely.
- Define relevant terms, and explain prior/ background results. (Novel concepts developed as part of your project can be presented here or in

3. **FINDINGS** – What are your findings and supporting arguments?
- What did you discover and/or prove? Describe your result(s) in detail. If possible, provide both formal and intuitive/verbal explanations of each major finding.
 - Describe your methods in general terms.
 - Present rigorous proofs of the theory results – or, if the arguments are long, give sketches of the proofs that explain the main ideas.
 - For numerical/statistical results, include tables and figures that illustrate your data. Include relevant statistical analysis. Were any of your results statistically significant? How do you know this?
4. **CONCLUSIONS** – What is your assessment of your findings
- How do the results address your research question? And how have you advanced your readers' understanding relative to what is already known?
 - Discuss possible limitations. Did any questions or problems arise that you were not expecting?
 - What challenges do you foresee in extending your results further?
 - What application(s), if any, do you see for your work?
5. **REFERENCES** – What are your sources?
- This section should not exceed one page. Limit your list to the most important references.
 - List the references/documentation used which were not of your own creation (i.e., books, journal articles).
 - Your reference list should be written based on the American Psychological Association. For more information, you may visit this link: <https://apastyle.apa.org/>.

V. **ABSTRACT**

The abstract should be 250 words or less. Do not discuss specific aspects of the research in detail, including experimental procedures and statistical methods. Any information that is unnecessary to include in a brief explanation should be saved for the written research paper or the project exhibit board.

If the project is a continuation from a previous year, the abstract should only summarize the current year's work. If it is necessary to mention supporting research from the previous year(s), it must be minimal.

If the abstract text includes special characters, such as mathematical symbols, which cannot be translated electronically, spell out the symbol.

Do not include acknowledgments in the abstract. There should be no references to mentors, institutional facilities, and awards or patents received.

Title

Finalist's Name (or names, if a team project)

School Name, City and Region

Purpose

- An introductory statement providing background or the reason for investigating the project topic.

Procedure

- A brief overview of how the investigation was conducted, highlighting key points and including methods and resources used.
- Do not provide details about materials used in the research unless they greatly influenced the procedure or were needed to conduct the investigation.
- An abstract should only include procedures done by the Finalist. Do not include work done by a mentor (such as surgical procedures) or work done prior to the Finalist's involvement.

Observations/Data/Results

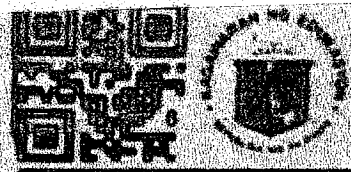
- This section should provide key results that lead directly to the conclusions.
- Do not include unnecessary data or observations about the results, nor tables, charts, graphs, or other images. While these belong in the research paper or the project board, they do not belong in the formal ISEF abstract.
- Unless significant, do not include any of the experimental design difficulties encountered in research.

Conclusions

- This section should be confined to a short summary in 1-2 sentences. It is a reflection on the research process and results, which may include conclusive ideas, important applications, and implications of the research.
- The ISEF abstract does not include a bibliography.
- ISEF requires the bibliography as part of the research plan to be provided on Form 1A.

Ethics Statement

- Scientific fraud and misconduct are prohibited at any level of research or competition.
- Plagiarism, use or presentation of other research's work as one's own, and fabrication of data will not be tolerated. Fraudulent projects are disqualified from the competition.



Attachment No. 4 to DepEd Memorandum No. 008, s. 2026)

TUKLAS PROJECT POSTER DISPLAY FORMAT AND SAFETY GUIDELINES AND SAMPLE ABSTRACTS

Display Guidelines

The project display, printed on photo paper, shall summarize the research project and focus on the proponent's work for this year's study, with only minimal reference to previous research, if applicable. It shall be in trifold setup capable of standing on its own on the provided table. Researcher/s may use cardboard or illustration board to make the poster sturdy. Tarpaulins are not allowed at any level of Science Fair competition, in support of the government's environmental advocacy to reduce the consumption of non-biodegradable or non-recyclable materials.

Safety regulations must adhere to or be consistent with the guidelines set by the International Science and Engineering Fair (ISEF).

The project poster display should include the following items: Abstract, Background, Objectives, Significance, Methodology, Results and Discussion, Conclusion, Recommendations, Bibliography, and, Photo Credits (including illustrations and graphics).

Project Poster Display Dimension

The dimensions of the project poster display shall be 48 inches wide and 48 inches in height and shall be able to stand on a table. A sample is provided below.

